Udit Jain

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SUMMARY

Results-driven **Software Engineer** and **M.Tech (CSE) candidate at NIT Warangal**, graduating in 2026, seeking a **full-time Software Engineer role** to apply my expertise in **full-stack development and AI automation** using **Java, Spring Boot, ReactJS, and LangChain**.

PROFESSIONAL EXPERIENCE

Intel Corporation - Bengaluru, *Software Engineer Intern* *Jul 2025 - Present*

- Engineered and integrated **CSV export functionality** into Material UI tables within Intel's analytics platform (*PRISM*), boosting data accessibility and cutting manual reporting time by **40%**.
- Optimized **ReactJS-MUI integration** to enable downloadable, filterable, and paginated dashboards across **3+ internal teams**, improving representation.
- **Developed and executed end-to-end UI tests using Cypress**, automating test case generation and consistent workflows to ensure high product reliability and reduce manual QA effort by **~30%**.

CISCO Systems - Bengaluru, *Software Engineer Intern* *May 2025 - Jul 2025*

- Constructed an **AI-driven automation system** using **LangChain and LLMs** to automate software patch deployment, simulation, and report generation for router hardware systems, reducing manual intervention by **70%**.
- Devised the overall **system design** to seamlessly integrate multiple components for **Jenkins** execution, patch loading, and **log** analysis.
- Programmed a scalable **Webex chatbot** with **four** intelligent agents, accelerating **regression testing** and reducing debugging time by **38%**.
- Applied **multithreading** to create **parallel agent instances**, enabling concurrent automation tasks and refining overall system throughput by **25%**.
- Configured modular scripts for **CI/CD integration** and made autonomous result tracking, ensuring real-time visibility of execution status and reports.

Centre for Development of Telematics (C-DOT) - Delhi, *Software Engineer* *Jan 2023 - Jul 2024*

- Led **end-to-end development** of the NCCS platform homepage using **Spring Boot, ReactJS, MySQL, and Thymeleaf**, raising load speed by **35%** and enhancing accessibility for internal government users.
- Implemented modular **RESTful APIs** using **Object-Oriented Programming** (OOP) principles and **caching** strategies to enhance backend efficiency.
- Collaborated with a **12-member cross functional** team to ship complex production-ready features with near-zero post-deployment issues.
- Utilized **Git** for branch management, version control, and peer reviews to ensure seamless integration and timely delivery.
- Contributed to hardware automation in the POTP project by validating **ROADM5 configurations** and debugging **30+ processor cards (82xx, 85xx, T1022)**, elevating system uptime and trimming setup time by **25%**.

Infosys Technologies Private Limited - Bengaluru, *Digital Specialist Engineer* *Jul 2022 - Dec 2022*

- Designed and deployed a **scalable e-commerce web platform** using the **MERN stack**, serving **10,000+ daily users** for a major client.
- Enhanced system performance by redesigning the **ReactJS** frontend and optimizing **Node.js** and **MongoDB** pipelines.
- Conducted comprehensive **API** testing using **Postman**, achieving a **25%** faster server response and smoother navigation.
- Coordinated with backend and DevOps teams to ensure **reliable API integrations**, version control via Git, and CI/CD automation for faster releases.

SKILLS

Languages	:	Core Java, Java 8, JavaScript, Python	**Databases**	:	SQL (MySQL), NoSQL (MongoDB)
Frameworks & Libraries	:	Spring Boot, ReactJS, LangChain	**Operating System**	:	Linux, Windows, macOS
Tools and Technologies	:	Git, Jenkins, Postman, REST APIs	**CS Foundations**	:	System Design, OOPs, Data Structures, Algorithms

PROJECTS

NeuroPredict, *Parkinson's Disease Detector*

Tech Stack: Python, CatBoost, XGBoost, Scikit-Learn, NumPy, Pandas, Matplotlib

- Independently architected a machine learning model to detect Parkinson's disease from vocal biomarkers using **22+ extracted acoustic features** (jitter, shimmer, NHR).
- Achieved **96.6% accuracy** and **91.4% MCC**, outperforming baseline models; optimized via **SMOTE balancing** and **GridSearchCV** for precision >94%.
- Built a **fully automated ML pipeline** with cross-validation and result visualization for reproducible outcomes, and **packaged the project via a virtual environment for local deployment and quality assurance**.

YieldXplain, *Crop Yield Prediction using XAI*

Tech Stack: Python, Random Forest, SHAP, Scikit-Learn, Matplotlib, Pandas

- Formulated a **98.96% accurate** model for predicting crop yield using multi-state agricultural datasets enriched with crop, area, and seasonal variables.
- Integrated **SHAP-based explainability** (force and waterfall plots) to interpret model predictions and enhance transparency for agricultural stakeholders.
- Rolled Out the model on a **local server environment** for result interpretation and end-user interaction, streamlining insight delivery for data-driven decision-making.

CERTIFICATIONS

Amazon ML Summer School 2025

- Completed intensive training on **Machine Learning** foundations, **deep learning**, and **production-grade ML**.
- Gained hands-on exposure to **supervised/unsupervised learning**, model evaluation, **optimization**, and **large-scale ML applications** at Amazon.

EDUCATION

M.Tech. - Computer Science and Engineering *Aug 2024 - Present*
National Institute of Technology, Warangal **CGPA**: 8.90

B.Tech. - Computer Science and Engineering *Aug 2018 - Jul 2022*
Maharaja Agrasen Institute of Technology, New Delhi **CGPA**: 9.06